1. Record Nr. UNICAMPANIAVAN00277642

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| Autore | Emmerich, Rudolf |
| Titolo | Guida per le ricerche igieniche compilata secondo i metodi in vigore nell'istituto d'igiene di Monaco / da R. Emmerich e H. Trillich ; con una prefazione di Max v. Pettenkofer ; traduzione con note del dr. L. Manfredi |
| Pubbl/distr/stampa | Napoli, : Detken, 1891 |
| Descrizione fisica | XI, 395 p. ; 23 cm |
| Altri autori (Persone) | Trillich, Heinrich |
| Soggetti | Igiene - Ricerche |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |

2. Record Nr. UNINA9910299958503321

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| Autore | Zhu Ren |
| Titolo | Synthesis and Characterization of Piezotronic Materials for Application in Strain/Stress Sensing / / by Ren Zhu, Rusen Yang |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018 |
| ISBN | 3-319-70038-3 |
| Edizione | [1st ed. 2018.] |
| Descrizione fisica | 1 online resource (70 pages) : illustrations (some color) |
| Collana | Mechanical Engineering Series, , 0941-5122 |
| Disciplina | 621.3815363 |
| Soggetti | Nanotechnology<br>Mechatronics<br>Optical materials<br>Electronics - Materials<br>Lasers<br>Photonics<br>Remote sensing<br>Nanotechnology and Microengineering<br>Optical and Electronic Materials<br>Optics, Lasers, Photonics, Optical Devices<br>Remote Sensing/Photogrammetry |

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| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Introduction to the piezotronic effect and sensing applications -- Growth of uniform nanowires with orientation control -- Alignment and transfer of nanowires in a spinning Langmuir film -- Piezotronic effect in a zinc oxide nanowire -- Ultra-sensitive strain/stress sensing -- Closure.-. |
| Sommario/riassunto | This book explores the new materials and the resultant new field of piezotronics. The growth and alignment of the zinc oxide nanostructures are discussed in detail because of its wide adoption in this field and its significance in optics, health, and sensing applications. The characterization of the piezotronic effect and how to distinguish it from other similar but, fundamentally different effects, like piezoresistive effect is also considered. The huge potential in the wearable and flexible devices, as well as organic materials, is further examined. The stain/stress sensing is introduced as an example of an application with piezotronic materials. Presents a comprehensive review of the new field of piezotronics; Illustrates how to distinguish the piezotronic effect from other, similar physical phenomena; Explains how to develop novel electronic devices with piezotronic materials; Introduces the organic piezotronic materials for the first time. |